

California Global Warming Solutions Act of 2006

Data Certification Process and Questions

California Mandatory GHG Emissions Reporting

California Air Resources Board

May 27, 2009

Introduction and Overview

- Introduction
- Facility Registration Review
- Data Entry – Quick Summary
- Certifying Data Submissions
 - Unlocking Your Data
 - Verification Ready Data
- “Submitting” your Report
- General Questions, time permitting

Deadlines for Reporting

- 2009: Must report 2008 emissions in 2009
 - See Regulation and Guidance for methods
 - Reports due June 1, 2009
 - Verification is optional, reporting is not
- 2010: Emissions data report must meet full requirements of the regulation
 - Monitoring equipment and procedures should be in place by January 1, 2009
 - Reports due April 1 and June 1, depending on sector
 - Verification is required

Completing Reporting



- Register your facility immediately
 - Contact ARB if you do not have access codes (ghgreport@arb.ca.gov)
- Use Step-by-Step Guide(s)
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>
- Keep working to complete report as soon as possible
- Certify report “submissions” to complete reporting

ARB Regulation: Who Reports?


- Cement plants
- Oil refineries $\geq 25,000$ MT CO₂/yr
- Hydrogen plants $\geq 25,000$ MT CO₂/yr
- Electric generating facilities (≥ 1 MW & $\geq 2,500$ MT CO₂)
- Electric retail providers and marketers
- Cogeneration facilities (≥ 1 MW & $\geq 2,500$ MT CO₂)
- Stationary combustion sources emitting $\geq 25,000$ MT CO₂/yr



Intro: California GHG Reporting Tool

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Welcome to the California Air Resources Board's Online Greenhouse Gas (GHG) Reporting Tool.

The reporting tool has been designed to meet the needs of companies and agencies reporting GHGs and other information required by the State's mandatory reporting regulation. It also serves as a unified tool for facility tracking and certification of emission reports as well as data verification by third-party verifiers, as required by the regulation.

Because ARB's GHG reporting tool shares its basic software platform with existing reporting and tracking tools developed for U.S. EPA and The Climate Registry, it is also designed to ease transitions to potential regional and national reporting programs in the future.

A User Guide for the reporting tool is available at the California's mandatory reporting web page, at <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm>.

User Login



User ID *

Password *

Login

Forgot your [User ID](#) or [Password](#)

Register for an ARB login

To activate a user account for an organization, click the Register button.

Register

Home : Visit ARB Mandatory Reporting Page : Return to Top

Click Register button to set up your Facility and Reporting Tool user login.

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Extensive Help Documents

- Stepwise Reporting Tool Guidance

- <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm>

- Guidance Documents for questions about calculating GHG emissions

- <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep-guid/ghg-rep-guid.htm>

- Reporting Requirements Summary Slides

- <http://www.arb.ca.gov/cc/ccei/meetings/meetings.htm>

- Regulation and Staff Report

(includes Regulation and other materials):

<http://www.arb.ca.gov/regact/2007/GHG2007/GHG2007.htm>

Accessing the Tool

- For facilities or entities subject to reporting, contact ARB if access codes have not been received
- For access to Training Site, contact ARB at ghgreport@arb.ca.gov

Reporting Checklist

Initial Steps

1. Prepare for Reporting
2. Register
3. Manage General Facility Information

Step 4-6: Facility Information Module

Steps 7-9: Annual Reporting Module

10. Perform QA Checks & Certify Report

Reporting Checklist

Facility Information Module

4. Set up *Emitting Activities*
5. Set up *Devices*, if needed
6. Set up *Generating Units*, if applicable

Annual Reporting Module

7. Report *Fuels and Emissions* Data for *Emitting Activities*
8. Report *Device Level Fuel Use*, if needed
9. Report *Generating Unit* Information

-
10. Perform QA Checks & Certify Report

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Step 1 - Prepare for Reporting

- Obtain Facility ID and Access Code
- Review Reporting Tool Primer
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>
- Review step-by-step guidance for reporting using tool
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghgstepwisegsc.pdf>
- Collect Facility Information

Step 2 - Register (a)

- Use ARB ID and Access Code provided by ARB
- You must “Register” first, use the Registration button, not “Login”
- The first person to register is the default Facility Manager
 - Facility Manager certifies data as complete and accurate
 - Two people may be designated as Facility Managers

Step 2 - Register (b)



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User Login



User ID *

Password *

Login

Forgot your [User ID](#) or [Password](#)

Register for an ARB login

To activate a user account for an organization, click the Register button.



Register

Home : Visit ARB Mandatory Reporting Page : Return to Top

Click Register button to set up your Facility and Reporting Tool user login.

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Step 2 - Register (c)

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Help

Register your organization

Complete the information below with the ARB ID and Access Code provided to your organization by ARB. Required fields are indicated by a red asterisk (*).

If you have not received a letter from the ARB and have questions regarding the application, please select the Contact Us link at the top of the page.



Enter Information

Already a User?	<input type="button" value="v"/>	← Select No. If Yes (already user) proceed to log in to the GHG Emissions Reporting Tool.
Organization Type *	<input type="button" value="v"/>	← Select "Facility"
ARB-ID *	<input type="text"/>	← ARB ID and Access Code for your facility provided by ARB via letter.
Access Code *	<input type="text"/>	

← Click Next button to proceed with the GHG Emissions Reporting Tool registration.

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Help

Complete User Registration

Enter Information

Mr., Mrs., Ms.	<input type="text"/>
First Name *	<input type="text"/>
Last Name *	<input type="text"/>
Middle Initial	<input type="text"/>
Phone Number *	<input type="text"/>
Fax Number	<input type="text"/>
Company Affiliation	<input type="text"/>
Address *	<input type="text"/>
Address	<input type="text"/>
City *	<input type="text"/>
Country *	<input type="text"/>
State *	<input type="text"/>
Postal Code *	<input type="text"/>

Important: To complete registration, enter a valid email address.

Email Address *	<input type="text"/>
Re-enter email address *	<input type="text"/>
Email Salutation (e.g. Bill Smith,)	<input type="text"/>
Create your User ID *	<input type="text"/>
Create your password *	<input type="text"/>
Re-enter password *	<input type="text"/>

BackNext

Click the Next button to proceed with user registration.

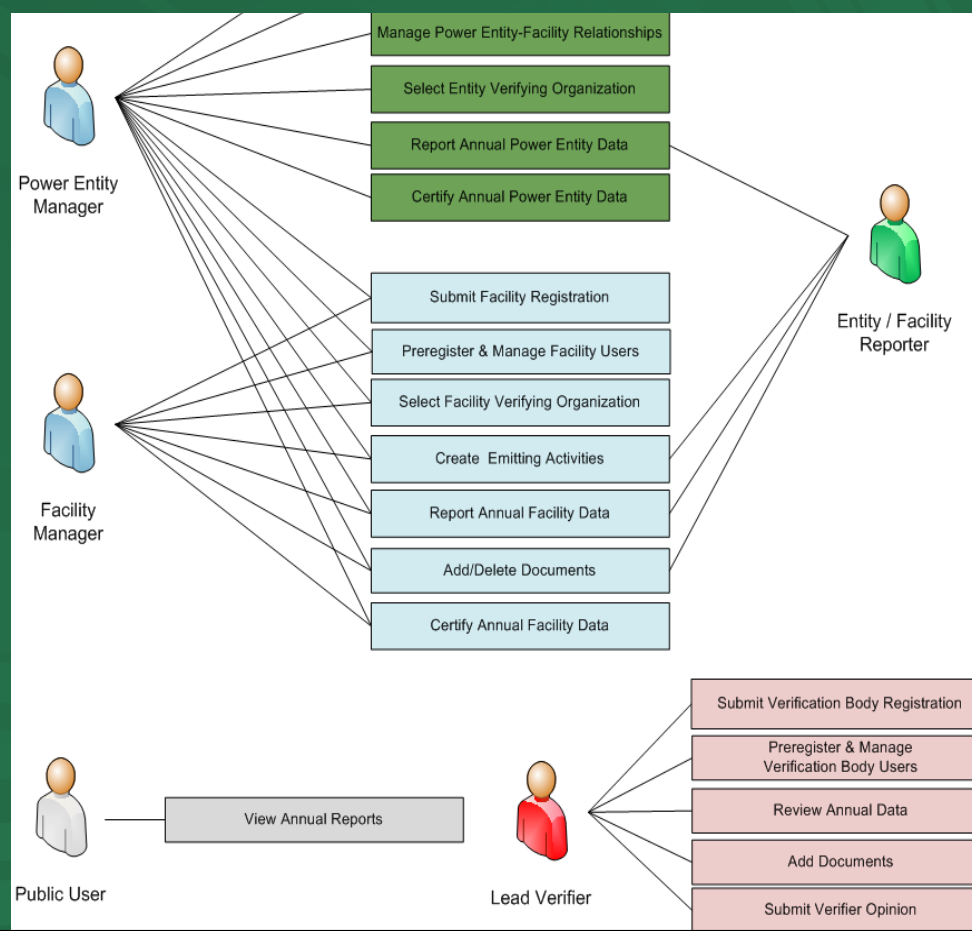
Enter all required fields.

Choose a GHG Emissions Reporting Tool username and password.

Home : Visit ARB Mandatory Reporting Page : Return to Top

User Roles and Permissions: Facility Managers and Reporters

- Access and responsibilities
- Facility manager roles and reporter roles
- Two facility managers possible



Facility Information Tabs

Facility Details | Addresses | Geographic Location | Contacts | Associated Entity | Verification Bodies | Emitting Activities
Generating Units | Devices | Energy and Production | Facility Documents | Facility and Unit Submissions | ARB Notifications

Facility Details

Facility Name: ABC Facility

ARB ID: 123456

Access Code: test

Primary Reporting Sector: Hydrogen Plant

Secondary Sectors (hold ctrl to select multiple):
Cogeneration Facility
Electricity Generation

NAICS (First 2 digits): 33 - Manufacturing

NAICS: 33121 - Iron and Steel Pipe and Tube Manufacturing from Purchased Steel

Nameplate Capacity (MW): 2486

Description:

Please indicate below whether you prefer that non-emissions data or information provided in this report be designated as preferred confidential.
For definition of preferred confidential, see help text.

Preferred Confidential ☒

Save Use the buttons at the bottom of each tab to add or modify information.

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Annual Reporting Initial Screen

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Facility **Annual Reporting** Reports

Annual Reporting

Highlight and click on the row in the grid below listing the Submission ID for which you wish to review annual submission data. Then click the **Next** button.

Select Submission

Click the Filter button to narrow the grid contents. **Filter**

Submission ID	Submission Type	Reporting Level	Name	ARB ID	Reporting Year	Submission Create Date	Submission Status
241	Emissions and Fuels	Facility	ABC Facility	123456	2009	12/29/2008	Unverified Preliminary Data
239	Emissions and Fuels	Facility	ABC Facility	123456	2008	12/23/2008	Unverified Preliminary Data
258	Emissions and Fuels	Generating Unit	Unit 1	123456-001	2008	01/07/2009	Unverified Preliminary Data
271	Energy and Production	Facility	ABC Facility	123456	2008	01/11/2009	Unverified Preliminary Data
273	Energy and Production	Generating Unit	Unit 1	123456-001	2008	01/11/2009	Unverified Preliminary Data
301	Power Transactions	Power Entity	A Big CA Power Co. 9876	2008	01/19/2009	Unverified Preliminary Data	Unverified Preliminary Data
302	SF6 Emissions	Power Entity	A Big CA Power Co. 9876	2008	01/19/2009	Unverified Preliminary Data	Unverified Preliminary Data

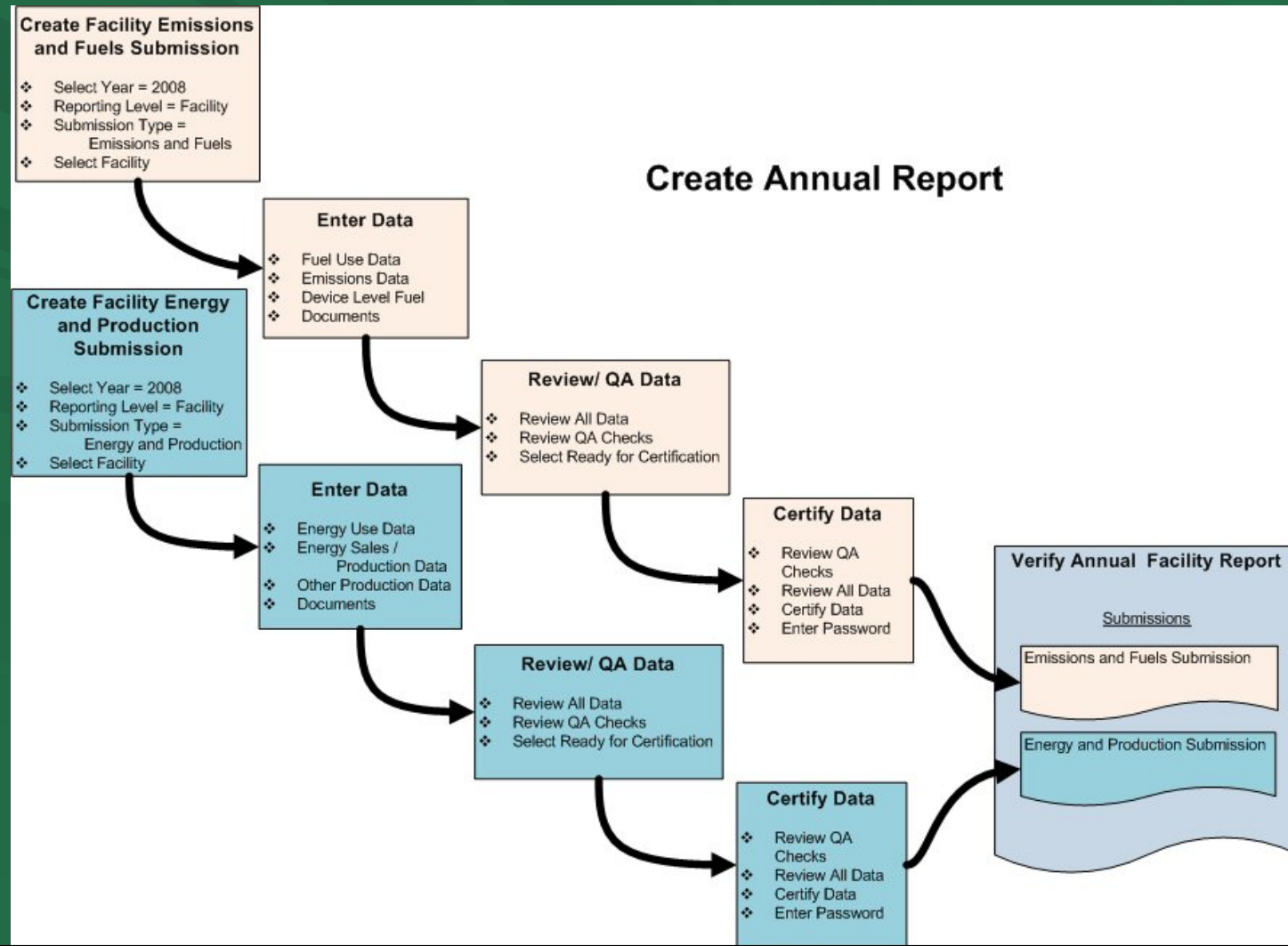
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Next Click the Next button to view the selected submission.

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Summary of Reporting Flow



New Features: Reports & Export

■ Report Generator

- “Report” link in blue bar on top of page
- Provides emissions summaries
- Provides details of all entered data
- Will help data review process
- Output to pdf, Excel, or csv file
- Do not submit output to ARB – Certified data in the tool is your submittal

■ Export

- Export data in grids to Excel
- Helpful if many records are entered

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*** Quick Tool Demo ***

**Review
Registration Process
Set Up of Facility Info
Reports**

**Questions Following
Certification Slides**

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For Details: Reporting Resources

- Training Videos – For each sector
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>
- Step-by-Step Guides
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>
- Regulation Guidance
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep-guid/ghg-rep-guid.htm>
- ARB Staff

Certification of Reported GHG Data Submissions

Certification of Data

Why Certification is Needed

- Certification ensures data integrity
 - Facility manager certifies data as accurate and complete
- Certification “locks” data to create a stable data set
 - Necessary for verification so data are not unexpectedly updated during verification process
 - Needed to provide stable reports to support annual reporting, fees, cap & trade programs
- Changes permitted under certain situations prior to verification opinion

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Certification of Data: Key Terms

Reporting Step	Possible Submission Status	Description
Report	Unverified Preliminary Data	Status when a facility user has saved draft emission records, but before the entry of all emissions values are complete or QA checks are completed.
	Pending Certification	Status when the facility user (Reporter or Manager) has completed entry of emissions for that facility and completed QA checks.
Certify	Certified - Unverified Locked Draft Data	Status when Manager certifies that the data are complete and accurate. Reporter is 'locked' out of the data report. <u>Manager can unlock data.</u> With ARB approval, the verification body is added by the Reporter to have access to view the data report.

Certification of Data: Key Terms

Reporting Step	Possible Submission Status	Description
Verify	Verification Ready	System changes status to "Verification Ready" when all associated submissions = "Unverified Locked Draft Data." This status enables the Verifier to view data associated with the organization. Data locked to Manager and Reporter. <u>Reporting complete for 2009 submittal, unless verifying data. Data locked.</u>
	Revisions Requested	Status when verifier has requested changes be made to the data.
	Verified	Status when the lead verifier has indicated that the verification is complete (positive or adverse).
Final	Final Data	Status when the ARB accepts all data for a reporting year and makes emissions data available to the public.

Understanding Submissions

- Submissions are created and accessed through “Annual Reporting” tab on blue top bar
 - Shortcut: After submissions are created, they can be quickly accessed through the red “Facility and Unit Submissions” tab on the Facility Information page
- Submissions contain data expected to change and be updated annually
 - Emissions and Fuels: Fuel use, estimated emissions, fuel parameters, “device”-level fuel use, etc.
 - Generating Units: Electricity or cogeneration units
 - Energy and Production: Electricity purchased, energy production, hydrogen, efficiency metrics, etc.
- Submissions linked to defined facility Emitting Activities, Generating Units, Devices

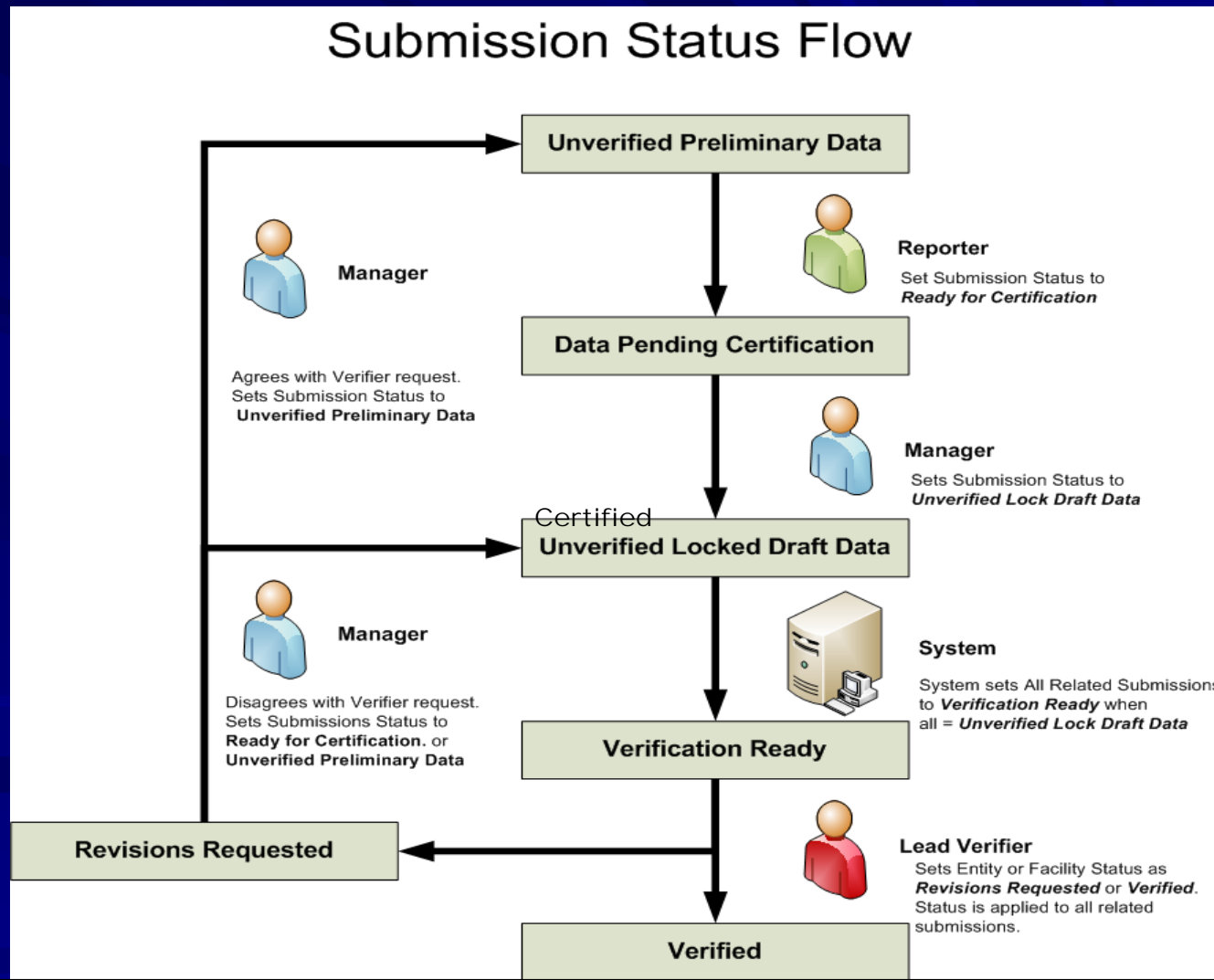
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Certifying Submissions

- Each submission must be individually Certified by a Facility Manager
 - Submission must have status of “Data Pending Certification” set by Reporter or Manager to be Certified
- Individual certifications required because each submission might be created or entered by different users
- Manager doing certification must review QA checks prior to certification
- Certification possible with QA “Warnings” but “Failure” status will prevent certification or certification-ready status

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Certification of Data: Overview



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1a. Review Emissions and Fuels

- Can be performed by either Reporter or Manager
- Must review QA checks to set “Data Pending Certification”

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Facility Annual Reporting Reports

Logged in as Facility Manager (source)

Review Annual Emissions and Fuels Submission

Use this page to report and review annual emissions and fuels data.

The tabs below allow you to report and review the following data: 1.) Emitting Activity Fuel Data, 2.) Emissions Data, 3.) Device Level Fuel Data, and 4.) Supporting Documentation.

Submission Detail

Submission ID: 239
Submission Status: Unverified Preliminary Data
Reporting Year: 2008

Facility

Facility Name: ABC Facility
ARB ID: 123456

Emitting Activity Fuel Data Detail | Emissions Data Detail | Device Level Fuel Use Data Detail | Supporting Documentation

Fuel	Fuel Type	Quantity	Emitting Activity Name	Carbon Content	HHV	
Pentanes Plus	Fuel	246246 gallons	N-Butane Test	18.24 kg C / MMBtu	4.62 MMBtu / Barrel	66.83 kg
N-Butane	Fuel	1010 gallons	N-Butane Test	17.72 kg C / MMBtu	4.328 MMBtu / Barrel	64.93 kg
LPG	Fuel	333 gallons	N-Butane Test	17.19 kg C / MMBtu	3.861 MMBtu / Barrel	62.98 kg
CKD	Other	9898 metric tons	Cement test 2			
CA Low Sulfur Diesel	Fuel	550 gallons	Mobile Cars			9.96 kg C
Clinker	Other	1275 metric tons	Cement test 2			
Tires	Fuel	10000 short tons	Natural Gas Consumer		25 MMBtu / Short ton	100 kg C
Residual Fuel Oil (#5 & 6)	Fuel	20000 gallons	Boiler gasoline	20 kg C / MMBtu	6 MMBtu / Barrel	100 kg C
Landfill Gas	Fuel	5557 million scf	Multiple Fuels Test	28.4 kg C / MMBtu		104.06 kg

Report Additional Data | Edit Record | Delete Record

Back | **Review Submission QA Checks**

Click the Review Submission QA Checks button to view system quality assurance checks on your submission.

Home : Visit ARB Mandatory Reporting Page : Return to Top

1b. QA Check Review

- Can still certify with “Warning” messages, but review
- Must fix “Failure” errors before “Ready for Certification” allowed
- Device warnings can generally be ignored for now

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Facility Annual Reporting Reports

Logged in as Facility Manager (source)

Review Submission QA Checks

Submission Detail

Submission ID 239
Submission Status Unverified Preliminary Data
Reporting Year 2008

Facility

Facility Name ABC Facility
ARB ID 123456

QA: Emitting Activity Fuel Data

Record ID	Fuel	Type	Emitting Activity Name	Criticality	Check Number/Description
570	Wastewater Treated	Other	Wastewater	Warning	You have not reported the activity fuel use for this fuel.
571	Biogas	Fuel	Mobile Cars	Warning	You have not reported the activity fuel use for this fuel.
572	Biomass Derived Fuels (Solid)	Fuel	Mobile Cars	Warning	You have not reported the activity fuel use for this fuel.
573	CA Low Sulfur Diesel	Fuel	Mobile Cars	Warning	You have not reported the activity fuel use for this fuel.

QA: Emissions Data

Record ID	Emitting Activity Name	Fuel	GHG	Emitting Activity Category	Criticality	Check Number/Description
568	Mobile Cars				Warning	You have not reported at least one emission record for this emitting activity.
569	Wastewater				Warning	You have not reported at least one emission record for this emitting activity.

QA: Device Level Fuel Use

Record ID	Device Name	Fuel	Criticality	Check Number/Description
574	Other		Warning	You have not reported at least one fuel use record for this device.
575	Scale 3		Warning	You have not reported at least one fuel use record for this device.
576	Scale 1		Warning	You have not reported at least one fuel use record for this device.
577	Scale 2		Warning	You have not reported at least one fuel use record for this device.

QA: Source Inventory Data

Record ID	Entity Name	Entity Number	Criticality	Check Number/Description
568	ABC Facility	123456	Warning	You have not reported at least one emission record for this emitting activity.
569	ABC Facility	123456	Warning	You have not reported at least one emission record for this emitting activity.

Back Ready for Certification

Click the Back button to return to the submission to make any necessary changes.

By clicking the Ready for Certification button, you will change the status of the submission to "Pending Certification", which will queue the submission for the Facility Manager to certify. After changing the submission status to "Pending Certification", the submission will be locked and you will be unable to further edit annual data.

QA Checks with a Criticality of "Failure" will not allow you to proceed. You may proceed past QA Checks with a Criticality of "Warning".

2a. Certifying Submissions

- Performed by Manager only
- Select the Certify option
 - Select the Unlock option to “unlock” certified data
- Select the submission to be certified
- Click on continue

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Facility Annual Reporting Reports

Create New Submission
Certify or Unlock Annual Data

Welcome to the California Air Resources Board's

Logged in as Facility Manager (source)

Announcements

Click the Certify or Unlock Annual Data sub-menu (under Annual Reporting). Sub-menu becomes underlined when highlighted. Click to select.

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Facility Annual Reporting Reports

Certify Annual Emissions and Fuels Data

Use this page to select a submission for which to certify. Highlight and click on the row in the grid listing the annual submission you wish to select, and then click the **Continue** button.

The Submissions grid below contains only annual submissions for entities, facilities, or generating units with which you are currently associated and that have been marked with a Status of "Pending Certification". Use the Search Existing Records block to the right to refine your search. Use the **Export Data** button under the grid to get a report of the information contained in the grid.

Click the Filter button to narrow the grid contents. Filter

Submission ID	Submission Type	Name	ARB ID	Reporting Year	Submission Create Date	Submission Status
239	Emissions and Fuels	ABC Facility	123456	2008	12/23/2008	Data Pending Certification

Click on the row in the grid listing the submission you would like to select. Only submissions whose status has been changed to "Pending Certification" will display in this grid.

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Continue

Click the Continue button to proceed with certifying this submission.

Home : Visit ARB Mandatory Reporting Page : Return to Top

2b. Certifier QA Check Review

- Facility Manager performing "Certification" must also review QA checks
- If QA checks okay, click on Continue

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Facility Annual Reporting Reports

Logged in as Facility Manager (source)

Review Submission QA Checks

Submission Detail

Submission ID	239
Submission Status	Unverified Preliminary Data
Reporting Year	2008

Facility

Facility Name	ABC Facility
ARB ID	123456

QA Checks with a Criticality of "Failure" will not allow you to proceed. You may proceed past QA Checks with a Criticality of "Warning".

QA: Emitting Activity Fuel Data

Record ID	Fuel	Type	Emitting Activity Name	Criticality	Check Number/Description
570	Wastewater Treated	Other	Wastewater	Warning	You have not reported the activity fuel use for this fuel.
571	Biogas	Fuel	Mobile Cars	Warning	You have not reported the activity fuel use for this fuel.
572	Biomass Derived Fuels (Solid)	Fuel	Mobile Cars	Warning	You have not reported the activity fuel use for this fuel.
573	CA Low Sulfur Diesel	Fuel	Mobile Cars	Warning	You have not reported the activity fuel use for this fuel.

QA: Emissions Data

Record ID	Emitting Activity Name	Fuel	GHG	Emitting Activity Category	Criticality	Check Number/Description
568	Mobile Cars				Warning	You have not reported at least one emission record for this emitting activity.
569	Wastewater				Warning	You have not reported at least one emission record for this emitting activity.

QA: Device Level Fuel Use

Record ID	Device Name	Fuel	Criticality	Check Number/Description
574	Other		Warning	You have not reported at least one fuel use record for this device.
575	Scale 3		Warning	You have not reported at least one fuel use record for this device.
576	Scale 1		Warning	You have not reported at least one fuel use record for this device.
577	Scale 2		Warning	You have not reported at least one fuel use record for this device.

QA: Source Inventory Data

Record ID	Entity Name	Entity Number	Criticality	Check Number/Description
568	ABC Facility	123456	Warning	You have not reported at least one emission record for this emitting activity.
569	ABC Facility	123456	Warning	You have not reported at least one emission record for this emitting activity.

Back Continue

Click the Continue button to proceed with certification of this submission.

2c. Certify the Submission

- Summary of data in submission is shown
- If ready to certify, select: "Certified – Unverified Locked Draft Data"
- Enter password and submit

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Facility Annual Reporting Reports

Review Annual Emissions and Fuels Submission

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The tabs below allow you to report and review the following data: 1.) Emitting Activity Fuel Data, 2.) Emissions Data, 3.) Device Level Fuel Data, and 4.) Supporting Documentation.

Submission Detail

Submission ID: 239
Submission Status: Data Pending Certification
Reporting Year: 2008

Facility

Facility Name: ABC Facility
ARB ID: 123456

Review and confirm information displayed about your submission and your facility.

Use tabs to review reported submission data

Emitting Activity Fuel Data Detail Emissions Data Detail Device Level Fuel Use Data Detail Supporting Documentation

Emitting Activity Fuel Data Detail

Fuel	Fuel Type	Quantity	Emitting Activity Name	Carbon Content	HHV	
Pentanes Plus	Fuel	246246 gallons	N-Butane Test	18.24 kg C / MMbtu	4.62 MMbtu / Barrel	66.83 kg
N-Butane	Fuel	1010 gallons	N-Butane Test	17.72 kg C / MMbtu	4.328 MMbtu / Barrel	64.93 kg
LPG	Fuel	333 gallons	N-Butane Test	17.19 kg C / MMbtu	3.861 MMbtu / Barrel	62.98 kg
CKD	Other	9898 metric tons	Cement test 2			
CA Low Sulfur Diesel	Fuel	550 gallons	Mobile Cars			9.96 kg C
Clinker	Other	1275 metric tons	Cement test 2			
Tires	Fuel	10000 short tons	Natural Gas Consumer		25 MMbtu / Short ton	100 kg C
Residual Fuel Oil (#5 & 6)	Fuel	20000 gallons	Boiler gasoline	20 kg C / MMbtu	6 MMbtu / Barrel	100 kg C
Landfill Gas	Fuel	5557 million scf	Multiple Fuels Test	28.4 kg C / MMbtu		104.06 kg

Comment

Enter a comment if necessary. And read the certification statement.

By submitting my electronic signature via the Air Resources Board's greenhouse gas reporting tool, I hereby certify that this emissions report has been prepared in accordance with the GHG emissions mandatory reporting regulation at sections 95100-95133, title 17, California Code of Regulations, and that the statements and information contained in the emissions data report are true, accurate, and complete. As a User, I agree that documents submitted with electronic signatures, either scanned or using digital ink, or any other electronic format approved by ARB, will be considered valid for certification. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information.

Decision: Unverified Locked Draft Data

Select the decision status of the submission. To certify the submission, change the status to "Unverified Locked Draft Data".

Enter password

Enter your system password as your electronic signature.

Submit

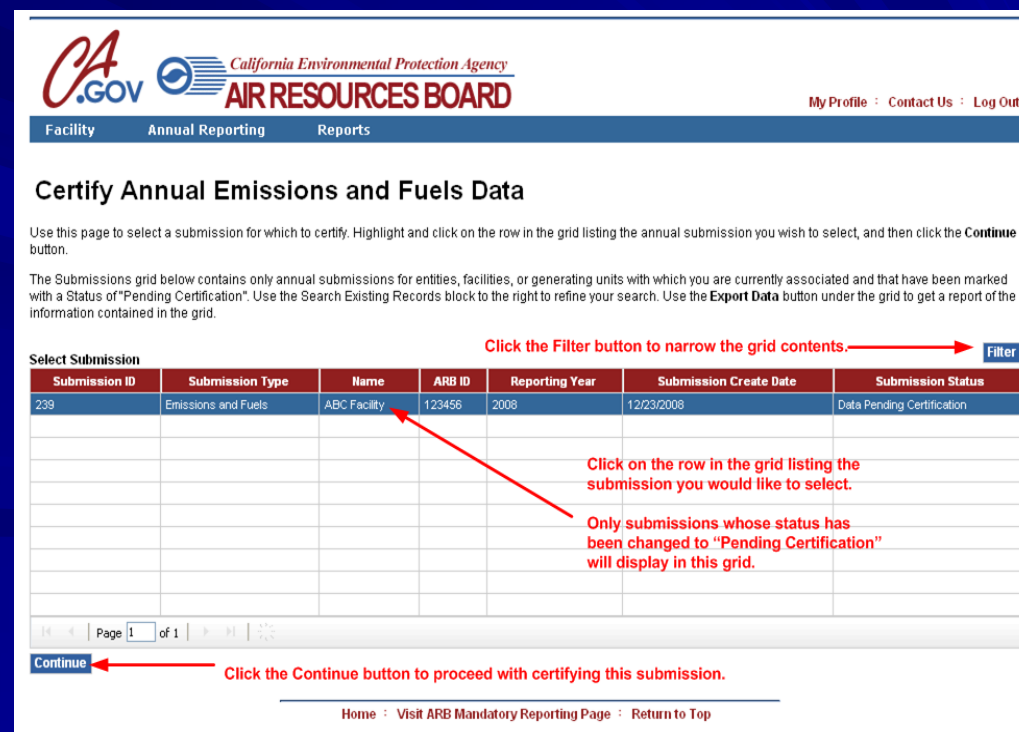
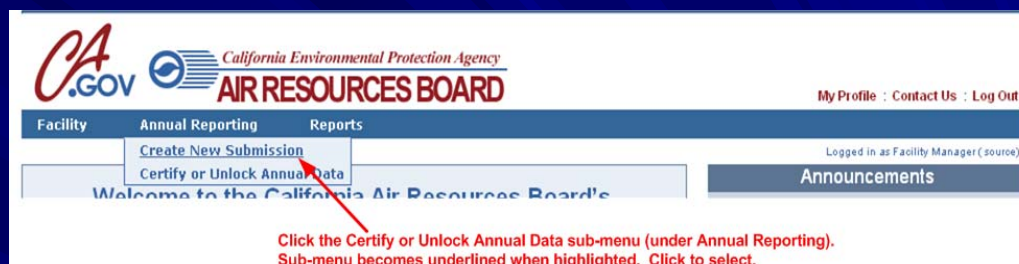
Click Submit when complete.

Back

Home : Visit ARB Mandatory Reporting Page : Return to Top

2d. Certify All Submissions

- Repeat QA and Certification for all facility submissions
- Status changes to “Verification Ready” when all submissions certified
- Reporting complete when “Verification Ready”



Reporting Tool Data Certification Demonstration

- See Reporting Tool Users Guide for detailed instructions
- Chapters 9 & 10
- <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghgtoolusersguide.pdf>

Registration and Certification Questions?



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General Reporting Questions?



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Possible Questions

- Locked out after 3 login attempts
- Changing data after certification
- Configuring a facility with electricity
Generating Units and other sources
- Determining the primary and
secondary sector

Immediate Next Steps

- Register Before June 1 (important!)
 - Contact ghgreport@arb.ca.gov if you have lost your codes or need codes
- See Step-by-Step guides
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-tool.htm>
- Enter facility information, fuel use, emissions ASAP
- Run QA checks, review report output
- Certify all Submissions to finish reporting process; status to “Verification Ready”

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ARB Contacts

General Email Address for Questions

ghgreport@arb.ca.gov

Richard Bode – Chief
Emissions Inventory Branch

rbode@arb.ca.gov

(916) 323-8413

Doug Thompson – Manager
Climate Change Reporting Section

dthompson@arb.ca.gov

(916) 322-7062

GHG Mandatory Reporting Website

[http://www.arb.ca.gov/cc/reporting/
ghg-rep/ghg-rep.htm](http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm)



Staff Contacts

General Reporting & GSCs, Patrick Gaffney

pgaffney@arb.ca.gov (916) 322-7303

Cogeneration, Renée Lawver

rlawver@arb.ca.gov (916) 323-0296

Cement, Michael Gabor

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